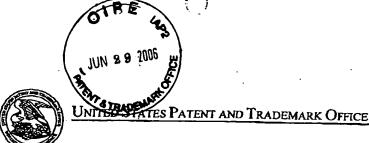
USPTO Richard Bork COMPANY: 5/24/2004 3:21 PM PAGE 2/004 Fax Server



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UNITED STATES DEPARTMENT OF COMMERCE
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	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/767,981 01/23/2001	Ejvind Jensen	4343.214-US	2751
7590 03/01/2004		EXAMINER	
Novo Nordisk North America, Inc. Suite 6400			
405 Lexington Avenue		ART UNIT	PAPER NUMBER
New York, NY 10174-6401		1647	

Please find below and/or attached an Office communication concerning this application or proceeding.

**RECEIVED** 

JUL - 5 2006

TECH CENTER 1600/2900

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<b>*3</b> \			CA
JUN 2 9 . 2006		· /	PECEI JUL STOOF
\$	Application No.	Applicant(s)	CH CENTER 1600 2901
Advisory Action	09/767,981	JENSEN ET AL.	WIER .
Advisory Accord	Examiner	Art Unit	600
•	David S Romeo	1647	1 590
The MAILING DATE of this communic	ation appears on the cover sheet w	ith the correspondence add	Iress
THE REPLY FILEO 21 October 2003 FAILS T Therefore, further action by the applicant is rec final rejection under 37 CFR 1.113 may only be condition for allowance; (2) a timely filed Notic Examination (RCE) in compliance with 37 CFR	puired to avoid abandonment of this either: (1) a timely filed amendment of the control of the c	is application. A proper re	ply to a
PERIO	FOR REPLY [check either a) or i	b)]	
a) The period for reply expiresmonths from	the mailing date of the final rejection.	-	
b) The period for reply expires on: (1) the mailing date event, however, will the statutory period for reply e ONLY CHECK THIS BOX WHEN THE FIRST R 706.07(f).	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	na data of the final minetics	
Extensions of time may be obtained under 37 CFR 1.136 have been filed is the date for purposes of determining the pe 37 CFR 1.17(a) is calculated from: (1) the expiration date of the babove, if checked. Any reply received by the Office later the earned patient term adjustment. See 37 CFR 1.704(b).	1800 of extension and the corresponding emo	runt of the fee. The appropriate ex	tension fee under
1.⊠ A Notice of Appeal was filed on 21 Octob	er 2003. Appellant's Brief must be	filed within the period set	forth in
37 CFR 1.192(a), or any extension there 2. The proposed amendment(s) will not be	of (3/ CFR 1.191(d)), to avoid disr	missal of the appeal.	
•	•		•
(a) they raise new issues that would req (b) they raise the issue of new matter (s	uire further consideration and/or's	earch (see NOTE below);	
	**		-
(c) ☐ they are not deemed to place the ap issues for appeal; and/or	pilication in better form for appeal	by materially reducing or s	implifying the
(d)  they present additional claims witho	ut canceling a corresponding num	ber of finally rejected claim	ns.
NOTE:	•		
3. Applicant's reply has overcome the follow	ving rejection(s):		
<ol> <li>Newly proposed or amended claim(s) canceling the non-allowable claim(s).</li> </ol>			į
5. ☐ The a) ☐ affidavit, b) ☐ exhibit, or c) ☐ n application in condition for allowance beautiful.	cause: See Continuation Sheet.		\$
6. The affidavit or exhibit will NOT be consideral to the final reject.	ion.		ł
<ol> <li>For purposes of Appeal, the proposed am explanation of how the new or amended</li> </ol>	claims would be rejected is provid	ed or b)⊡ will be entered a ed below or appended.	and an
The status of the claim(s) is (or will be) as	s follows:		
Claim(s) allowed:			
Claim(s) objected to:			
Claim(s) rejected: 15-23.			}
Claim(s) withdrawn from consideration:			1
8. The drawing correction filed on is a	) approved or b) disapprov	ed by the Examiner.	
9. Note the attached Information Disclosure	Statement(s)( PTO-1449) Paper N	lo(s)	
10. Other:			
	·	- Az	
Patent and Trademark Office	•	David S Romeo Primary Examiner Art Unit: 1647	~~

U.S. Patent and Trademark Office PTOL-303 (Rev. 11-03)

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Continuation Sheet (PTOL-303) 09/767,981

Application No.

Continuation of 5. does NOT place the application in condition for allowance because: Claims 15-23 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for GLP-1, does not reasonably provide enablement for GLP-1 compounds. Applicant argues that the specification teaches how to prepare a thiotropic gel. Applicant's arguments have been fully considered but they are not persuasive because this argument is not germane to the present rejection. With respect to GLP-1 compounds Applicant argues that the present application discloses GLP-1 compounds that can be used to formulate the compositions of the invention, and that analogs and derivatives of GLP-1 were known in the prior art. Therefore, the present application teaches the materials and conditions necessary to produce the claimed compositions. The scope of the term "GLP-1 compound" does not bear a reasonable correlation to the scope of enablement provided by the specification because the specification only reasonably enables compounds comprising fragments of the amino acid sequence of GLP-1 wherein said fragments bind the GLP-1 receptor, whereas the scope of the term "GLP-1 compound" encompasses any and all compounds having GLP-1 like activity.

Claims 15-23 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Applicant argues that the present application discloses GLP-1 compounds that can be used to formulate the compositions of the invention, and that analogs and derivatives of GLP-1 were known and understood by the prior art, such as U.S. Patent Nos. 5,545,618, 5188,666, and 5,120,712. Applicant's arguments have been fully considered but they are not persuasive. U.S. Patent Nos. 5,545,618 and 5188,666 are not disclosed in the present disclosure. The claimed GLP-1 analogs and derivatives in U.S. Patent No. 5,120,712 all comprise a specific amino acid sequence. In contrast, the present claims do not require any specific amino acid sequence.

Claims 15-23 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention, over the recitation of the term \*GLP-1 compound.\* Applicant argues that the present application discloses GLP-1 compounds that can be used to formulate the compositions of the invention, and that analogs and derivatives of GLP-1 were known and understood by the prior art, such as U.S. Patent Nos. 5,545,618, 5188,666, and 5,120,712. Applicant's arguments have been fully considered but they are not persuasive. U.S. Patent Nos. 5,545,618 and 5188,666 are not disclosed in the present disclosure. The claimed GLP-1 analogs and derivatives in U.S. Patent No. 5,120,712 all comprise a specific amino acid sequence. In contrast, the present claims do not require any specific amino acid sequence. The metes and bounds are not clearly set forth.

Claims 15-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Danley (4, cited by Applicants) in view of Avis (u10), and further in view of Galloway (a13), Schott (y7), and Ballard (x7). In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. The phenol and zinc elements of the presently daimed invention are all found in Danley. Danley teaches that a prolonged delivery formulation being an aqueous suspension of Insulinotropin precipitates or aggregates can be formed by using precipitants for example, phenolic compounds or basic polypeptides or metal ions or salts, and/or by using high shear and that more than one precipitant can be used at one time (page 18, lines 43-45). The examiner relies upon Avis for teaching that phenol is an antimicrobial agent. The examiner does not rely upon Galloway to supply zinc. Although Ballard may disclose other methods besides thixotropy for achieving prolonged action, Ballard discloses the advantages of thixotropy (page 1610, right column, full paragraph 3), which would motivate one of ordinary skill in the art to select thixotropy. The precipitation of GLP-1 by zinc is recognized by both Danley and Galloway. Danley recognizes that this is useful for the creation of a prolonged delivery formulation. Furthermore, Schott teaches that thixotropy is particularly useful in the formulation of pharmaceutical suspensions and emulsions; thixotropy can be used to solve the dilemma involving low viscosity and rapid settling of solid particles in suspensions and rapid creaming of emulsions; thixotropy prevents sedimentation and claying of suspended particles; Schott also teaches thixotropic agents (page 318, column 1, full paragraph 1). The precipitation of GLP-1 zinc would motivate one of ordinary skill in the art to select thixotropy because thixotropy prevents sedimentation and claying of suspended particles. Thus, the teaching of the precipitation of GLP-1 with zinc is not a teaching away from the creation of a prolonged delivery formulation or the creation of a get comprising GLP-1 and zinc.